

d12/F

RECEIVED
CENTRAL FAX CENTER

NOV 1 2003

OFFICIAL

Applicant : Joseph Dale Helmick
Appl. No. : 09/878,811
Publication No.: 20020107822
Filed : 06/10/2001
Title : Uncertain and complex system teaches neural networks
Once amended
Title : Statistical mechanics system teaches neural networks
Grp./A.U. : 2122
Examiner : Michael Holmes

Honorable Commissioner for Patents
Washington DC

AMENDMENTS

Honorable Commissioner:

With certificate of mailing and in good faith before the first office action, please amend the above identified once amended +application as follows:

In the Claims

Please add Claim 15 as follows:

(New) --15. The claim of 1 for a timing sensor measured and activated by numeric control from the data output of *match-with-rotate* algorithm, *yod* representing *cuspid root method* algorithm, and *zero vector* algorithm.

Please add Claim 16 as follows:

(New) --16. The claim of 1 for a stepper motor and generator winding measured according to the special angles detecting mechanism (Fig. 4) for *match-with-rotate* algorithm, *yod* representing *cuspid root method* algorithm, and *zero vector* algorithm and activated by numeric control.

Please add Claim 17 as follows:

(New) --17. The claim of 1 for a spark transmitter.

Please add Claim 18 as follows:

(New) --18. The claim of 1 for the nonlinear case, $L(u) = \lambda(u)$, $A(x) = \lambda(x) \times$ belongs to Complex numbers (Fig 3). The system $L(u) \Rightarrow A(x)$.

FROM : The Villas at St. Therese

FAX NO. : 614-864-3577

Nov. 11 2003 10:21AM P1

12
NE.
**RECEIVED
CENTRAL FAX CENTER**

NOV 12 2003

OFFICIAL

To: Michael Holmes Fax: (703) 746 7239
From: Joseph D. Helmick
Subject: Second amendment application before first office action
Date: November 10, 2003

Please accept this additional and new amendment included with this fax.

Joseph D. Helmick